

# **<sup>47,49</sup>Ti NMR in Metals, Inorganics, and Gels**

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Some recent progress in solid state <sup>47,49</sup>Ti NMR is described and reviewed. The metallic-state work described covers metals such as hcp titanium, TiB<sub>2</sub>, a number of intermetallics such as TiAl<sub>2</sub> and TiAl<sub>3</sub>. The inorganic work covers the various titanium oxide based materials including the TiO<sub>2</sub> polymorphs, anatase, rutile and brookite. The gel work covers the evolution of crystalline titania from gels formed by hydrolysis of titanium isopropoxide. Some complementary data from <sup>17</sup>O and <sup>13</sup>C NMR and powder X-ray diffraction is also included.

*Key words:* Titanium; NMR; Metals; Oxides; Gels.